

DERWENT-ACC-NO: 1979-61551B

DERWENT-WEEK: 197934

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TITLE: Paraffin deposit removal-inhibition - in oil well or  
flowline-pipeline systems by treatment with hot aq. soln.  
contg. pref. oxyalkylated surfactant

INVENTOR: BANSBACH, P L; ROBERSON, J B

PATENT-ASSIGNEE: PETROLITE CORP[PETL]

PRIORITY-DATA: 1973US-0338650 (March 7, 1973)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
CA 1059744 A	August 7, 1979	N/A	000	N/A

INT-CL (IPC): C09K007/02

ABSTRACTED-PUB-NO: CA 1059744A

BASIC-ABSTRACT:

The formation of paraffin deposits is prevented in, or existing paraffin deposits are removed from, petroleum systems such as walls, pipelines, etc. by treating the system with a compsn. comprising (1) water, at >100 degrees C, and (2) a surfactant (I) selected from (a) a sulphated fatty alcohol ethoxylate, in association with trisodium phosphate and isopropanol, (b) an alkyl aryl sulphonate, in association with an aromatic hydrocarbon and isopropanol, (c) a sulphated phenyl ethoxylate, a sulphated fatty alcohol ethoxylate and an amine ethoxylate, in association with trisodium phosphate and butyl carbitol, (d) an ethoxylated phenol formaldehyde resin, in association with an aromatic hydrocarbon, and (e) an oxyalkylated phenol-amine-formaldehyde condensate and an ethoxy phenol of formaldehyde resin, in association with an aromatic solvent and isopropanol.

Used in well tubings, or castings, flow lines, pipelines, tank batteries, etc.

TITLE-TERMS: PARAFFIN DEPOSIT REMOVE INHIBIT OIL WELL FLOWLINE  
PIPE SYSTEM

TREAT HOT AQUEOUS SOLUTION CONTAIN PREFER  
OXYALKYLATED SURFACTANT

ADDL-INDEXING-TERMS:

TUBE CASING TANK BATTERY POLYPHENOL POLYFORMALDEHYDE  
RESIN

DERWENT-CLASS: A21 A25 A97 E19 E34 H01 H03

CPI-CODES: A10-E08C; A12-W10; A12-W12C; E10-A09A; E10-A09B4; E10-B03B;  
E10-E04L; E31-K05; H01-E; H03-A; H03-B; I03-B;

CHEMICAL-CODES:

Chemical Indexing M3 \*01\*

Fragmentation Code

H4 M210 M220 M225 M226 M231 M232 M233 M260 M270  
M281 M311 M312 M313 M314 M315 M316 M332 M331 M334  
M333 M321 M322 M323 M280 M342 M340 M343 M344 M380  
M360 M391 M392 M393 L810 K421 K422 H181 H182 H183  
J371 H401 H481 H482 H483 H484 J271 J272 J273 H581  
H598 H582 H583 H584 H589 H599 H602 H608 H609 M620  
H402 H403 H404 H405 M510 H8 M520 Q417 J012 J013  
J014 M530 M540 Q602 Q616 M782 R021 R022 R023 R024  
M416 M902

Chemical Indexing M3 \*02\*

Fragmentation Code

H4 M121 M141 M142 M282 M210 M220 M225 M226 M231  
M232 M233 M240 M260 M281 M311 M312 M313 M314 M332  
M331 M321 M322 M323 M280 M342 M340 M343 M380 M370  
M360 M391 M392 M393 C316 G100 M532 M531 K421 K422  
K442 K350 H141 J341 H401 H481 H482 H483 H484 H541  
H594 H542 H543 H581 H598 H582 H583 H584 H589 H599  
H602 H608 H609 H402 M510 H8 M520 Q417 M540 Q602  
Q616 M782 R021 R022 R023 R024 M414 M902

Chemical Indexing M3 \*03\*

Fragmentation Code

H4 M210 M220 M225 M226 M231 M232 M233 M270 M281

M312 M313 M314 M332 M331 M321 M322 M323 M342 M343  
M380 M360 M391 M392 B720 B815 B819 B831 B415  
B701 B713 H401 H481 H482 H483 H484 H581 H582 H583  
H584 H589 H602 H608 H609 M620 H402 H403 M510 H8  
M520 Q417 M530 M540 Q602 Q616 M782 R021 R022 R023  
R024 M416 M902

Chemical Indexing M3 \*04\*

Fragmentation Code

K0 M210 M211 M212 M213 M214 M215 M216 M220 M221  
M222 M223 M224 M225 M226 M231 M232 M233 M240 M281  
M311 M312 M313 M314 M315 M316 M320 G040 M531 K431  
K432 M510 M520 Q417 M540 Q602 Q616 M782 R021 R022  
R023 R024 M414 M902

Chemical Indexing M3 \*05\*

Fragmentation Code

H4 M210 M212 M213 M214 M215 M216 M231 M232 M233  
M270 M281 M312 M313 M314 M315 M332 M331 M321 M322  
M323 M320 M342 M380 M391 M392 M393 H401 H481 H581  
H582 H583 H584 H589 M620 M510 H8 M520 Q417 M530  
M540 M782 R021 R022 R023 R024 M416 M902

Chemical Indexing M3 \*06\*

Fragmentation Code

H4 M312 M332 M321 M322 M323 M320 M280 M342 M380  
M391 M392 M393 H401 H461 H481 H561 H562 H563 H581  
H582 H583 H584 H589 M510 H8 M520 Q417 M530 M541  
M782 R021 R022 R023 R024 M415 M902

Chemical Indexing M3 \*07\*

Fragmentation Code

A111 A940 C108 C803 C802 C807 C805 C804 B720 B815  
B819 B831 B115 B701 B713 Q417 M782 R021 R022 R023  
R024 M411 M902

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0004 0013 0203 0231 1277 1279 1357 1517 1588 2000 2002 2012 2014  
2509 2846

Multipunch Codes: 011 028 038 04- 05- 080 140 147 180 198 213 214 215 231 24&  
240 249 31- 336 398 546 57- 646 681 688 720